



AVOX Systems

Formerly Scott Aviation

SERVICE INFORMATION LETTER

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OXYGEN - ATA CHAPTER 35

VENDOR CODE: 53655

P/N 359 SERIES – CREW OXYGEN BREATHING SYSTEM

AVOX SYSTEMS RECOMMENDS FOR AN OVERHAUL:

- OVERHAUL PERIOD,
- MINIMUM NECESSARY PARTS TO REPLACE,
- KITS OF MINIMUM NECESSARY PARTS TO REPLACE, AND
- NECESSARY FUNCTIONAL TESTS AFTER AN OVERHAUL

1. BACKGROUND

This SIL recommends the overhaul period for the 359 Series Crew Oxygen Breathing System and identifies the minimum parts to replace during an overhaul. This SIL includes facts about kits that contain all of the minimum necessary parts to be replaced in an overhaul. This SIL gives information about functional testing required after an overhaul. This SIL revises certain Disassembly and Assembly procedures but does not change any other procedures in the Component Maintenance Manual.

This SIL replaces SIL-35-36 Rev: None, dated 20040806 in its entirety. Page 1 was changed to replace paragraph 2.B. and delete Table 1. Page 2 was changed to delete paragraph 2.C. Page 3 was changed to specify the affected Crew Oxygen Breathing System part numbers, to correct the quantity of kit item number 20, Plug P/N 10006076 to 1, and to correct Note 3. Pages 4 and 5 were changed to show the appropriate figure numbers, item numbers, and part numbers.

You are given authority to make copies of this SIL and give them to other persons. If you make a copy of this SIL, you must make a copy of all of the SIL.

2. EFFECTIVITY

A. Aircraft

Any aircraft that uses the AVOX Systems (formerly Scott Aviation) 359 Series Crew Oxygen Breathing System.

B. Crew Oxygen Breathing System

AVOX Systems (formerly Scott Aviation) P/N 359XX4XX, P/N 359XX6XX and P/N 359XX8XX Crew Oxygen Breathing Systems (that include regulator assembly P/N 802730-04, P/N 802730-08, and P/N 802730-02 respectively).

C. Component Maintenance Manual (CMM)

AVOX Systems Component Maintenance Manual 35-11-82 (Revision Original dated Mar 20/87) is necessary to do an overhaul. After the CMM is revised to incorporate this SIL, this SIL will not be applicable to the CMM. See Section 7 of this SIL on how to contact AVOX Systems for revision status of technical publications.



3. AVOX SYSTEMS RECOMMENDS FOR AN OVERHAUL:

A. Overhaul Period

- (1) Do an overhaul every five years or more frequently for the 359 Series Crew Oxygen Breathing System.

B. Minimum Necessary Parts to Replace for an Overhaul

- (1) Overhaul Kit P/N 26974-01 contains the minimum necessary parts to replace for an overhaul of the 359 Series Crew Oxygen Breathing Systems described in paragraph 2.B. Refer to Table 1. You must replace other parts if they are defective.

C. Functional Tests that are Necessary after an Overhaul

You must do all the functional tests in the Component Maintenance Manual after you do an overhaul on the 359 Series Crew Oxygen Breathing System. You must follow all applicable procedures in the Component Maintenance Manual and this SIL when you do an overhaul. This SIL does not change the test procedures in the Component Maintenance Manual.

4. ACCOMPLISHMENT INSTRUCTIONS

An overhaul must be done by personnel knowledgeable in the repair of high-pressure aviation oxygen equipment. An overhaul must be done in a facility that is approved for the repair of high-pressure aviation oxygen equipment. Contact AVOX Systems for locations of repair facilities authorized to repair AVOX Systems and Scott Aviation oxygen equipment. See Section 7 of this SIL for contact instructions.

You must use all the necessary special tools and test equipment recommended in the Component Maintenance Manual. Equivalent special tools and test equipment may be substituted. All tools and test equipment used to repair high-pressure aviation oxygen equipment must be calibrated. You must do the calibrations how and when your applicable national standards organization recommends. You must use tools that are clean for oxygen use.

- A. Use the Component Maintenance Manual and this SIL to do an overhaul of the Crew Oxygen Breathing System.
- B. Write in your aircraft logs that an overhaul was done on the Crew Oxygen Breathing System.



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TABLE 1
PARTS CONTAINED IN
OVERHAUL KIT P/N 26974-01
FOR P/N 359XX4XX, 359XX6XX, AND 359XX8XX CREW OXYGEN BREATHING SYSTEMS
(Refer to Notes 1 thru 3)

KIT ITEM NUMBER	PART NUMBER	NOMENCLATURE	QUANTITY PER KIT
1	36862-01	PACKING, PREFORMED	2
2	36862-08	PACKING, PREFORMED	1
3	803456-01	POPPET ASSEMBLY	1
4	10006729	PIN, PUSH	1
5	36862-09	PACKING, PREFORMED	1
6	36862-11	PACKING, PREFORMED	1
7	19966-00	PACKING, PREFORMED	1
8	802618-02	DIAPHRAGM ASSEMBLY	1
9	56940-00	PACKING, PREFORMED	1
10	18018-00	PACKING, PREFORMED	1
11	18012-00	PACKING, PREFORMED	1
12	18027-00	PACKING, PREFORMED	1
13	802698-01	WASHER, VALVE	1
14	10006381	PACKING, PREFORMED (MICRO-MINIATURE)	2
15	10006218	PACKING, PREFORMED (MICRO-MINIATURE)	2
16	835-16	CABLE GUIDE (REFER TO NOTE 2)	5
17	232-475	GASKET	1
18	10007555	GASKET (REFER TO NOTE 3)	1
19	8820-02	SCREEN, FILTER	1
20	10006076	PLUG	1

Note 1: The overhaul kit contains the minimum necessary parts to replace in an overhaul of one P/N 359XX4XX, 359XX6XX, or 359XX8XX Crew Oxygen Breathing System. See Section 7 of this SIL for instructions to buy an overhaul kit.

Note 2 Cable Guide P/N 835-16 replaces P/N 27045-04 (Item No. 90, 95, 100, IPL Figure 1, CMM 35-11-82).

Note 3 In CMM 35-11-82 Rev. Original, the Effectivity Codes (T, U, V, W, Y, Z) for Item 155, IPL Figure 1 are incorrect. The correct Effectivity Codes for Item 155 are T, U, and W.

When assembling Regulator Assembly P/N 802730-02, -04, -08 to the applicable P/N 359 Series Crew Oxygen Breathing System, do not use Item 155, IPL Figure 1. Use Gasket P/N 10007555.



5. DISASSEMBLY OF 359 SERIES CREW OXYGEN BREATHING SYSTEM

NOTE: If removed for disassembly, discard and replace the following parts: preformed packing (20, 45, 50, 60, 85, 115, 120, 145, 155, 230, 235, 240, 255, 275, 310, IPL Fig. 8); poppet assembly (70, IPL Fig. 8); push pin (65, IPL Fig. 8); diaphragm assembly (290, IPL Fig. 8); valve washer (265, IPL Fig. 8); cable guide (90, 95, 100, IPL Fig. 1); gasket (145); filter screen (35, IPL Fig. 8), plug (42, IPL Fig. 1), gasket P/N 10007555.

- A. Paragraph 1.C., Page 301 of CMM 35-11-82 is superseded as follows.
(Refer to Figure 1 and IPL Figure 1 unless noted otherwise.)

NOTE: Disassembly of mask (10) may require removal of lock ring (P/N 10006558).

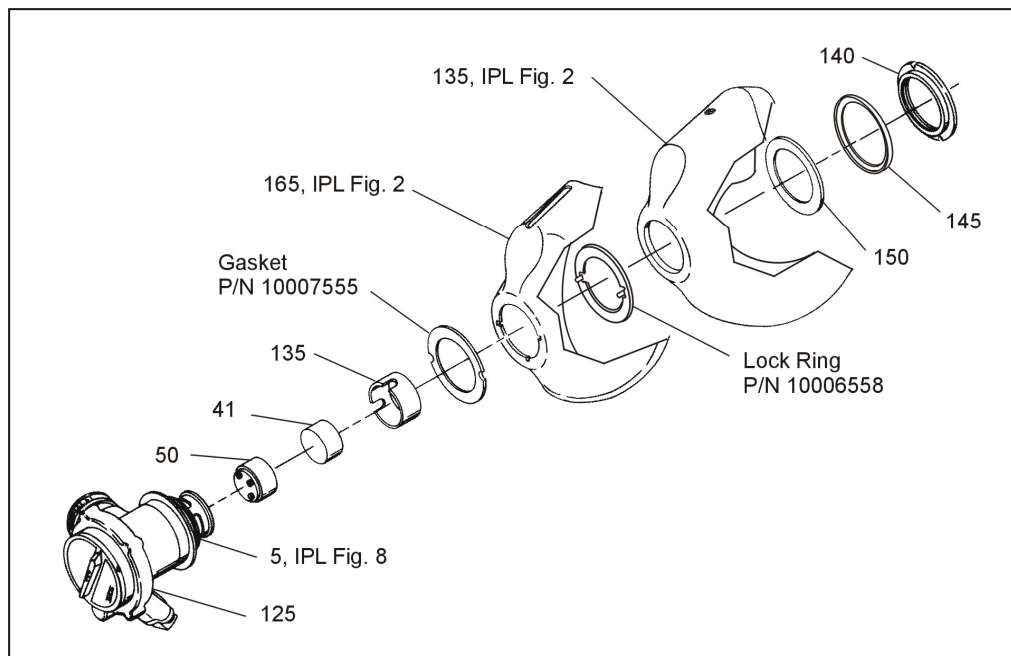
- (1) Remove regulator assembly (-115, 125, -130) from mask (10) by removing, cover (135), nut (140), gasket (145), washer (150), and gasket P/N 10007555. Discard and replace gasket (145) and gasket P/N 10007555. Loosely place the remaining components on the regulator assembly to prevent loss.

6. ASSEMBLY OF 359 SERIES CREW OXYGEN BREATHING SYSTEM

- A. Paragraph 9.E., Page 719 of CMM 35-11-82 is superseded as follows.
(Refer to Figure 1 and for item numbers, refer to IPL Figure 1 unless noted otherwise.)

NOTE: If mask (10) requires lock ring (P/N 10006558), assemble tabs on lock ring (P/N 10006558) through gasket P/N 10007555 and adapter (5, IPL Fig. 8), to align with slots in hard shell (165, IPL Fig. 2).

Install the appropriate regulator assembly (-115, 125, -130) in mask (10) using gasket (145), washer (150), nut (140) and gasket P/N 10007555. Using a standard spanner wrench, torque nut (140) per Table 801.



Installation of Regulator Assembly in Folding Quick-Don Mask P/N 358-1445V-01

Figure 1

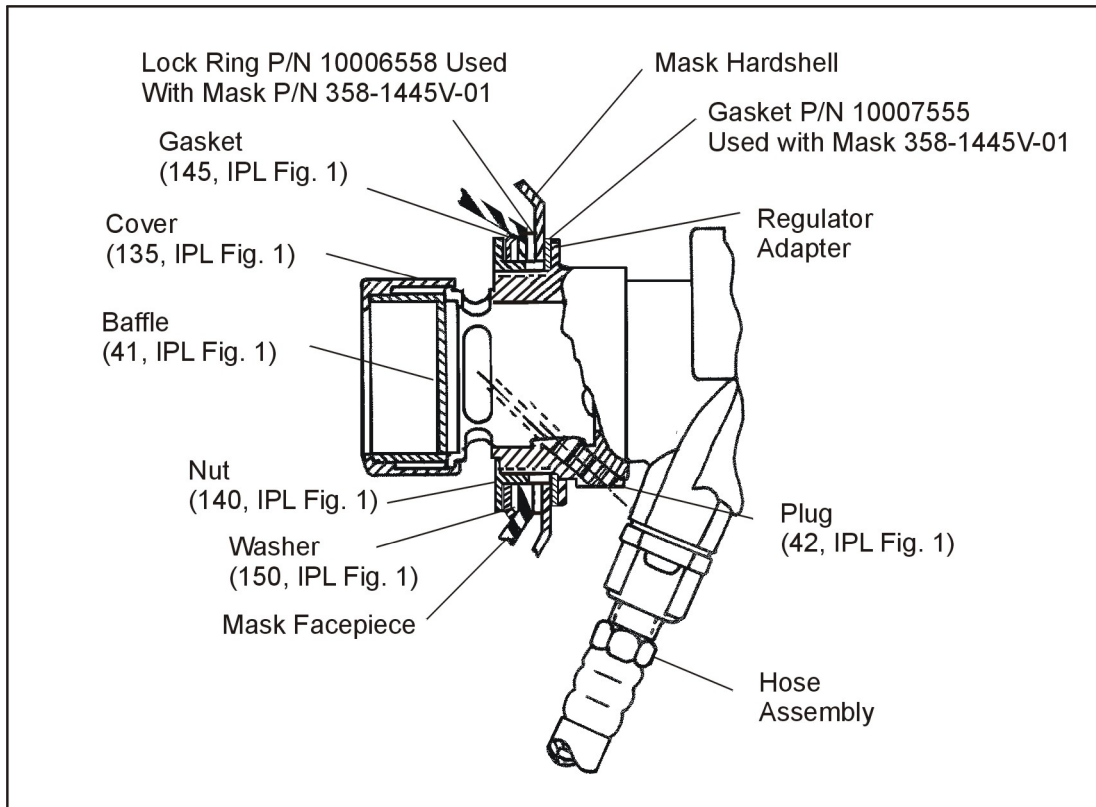


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6. ASSEMBLY OF 359 SERIES CREW OXYGEN BREATHING SYSTEM (CONTINUED)

- B. Hole Plug Kit Installation, Figure 706, Page 716 of CMM 35-11-82 is superseded by Hole Plug Kit Installation, Figure 2, below.



Hole Plug Kit Installation
Figure 2

7. TO CONTACT AVOX SYSTEMS:

- A. To get an overhaul of a 359 Series Crew Oxygen Breathing System or to have it repaired, contact any AVOX Systems Authorized Repair and Overhaul Facility. Refer to the AVOX Systems web site (www.avoxsys.com) for a list of authorized facilities.
- B. To buy kits or parts, contact any AVOX Systems Authorized Distributor. Refer to the AVOX Systems web site (www.avoxsys.com) for a list of distributors.
- C. To get technical aid, contact the AVOX Systems Technical Support Department.
- Telephone: 1-716-683-5100
 - Fax: 1-716-681-1089
 - E-Mail: sa-customerservice@avox.zodiac.com



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7. TO CONTACT AVOX SYSTEMS (CONTINUED)

- D. To get a copy of the Component Maintenance Manual or the revision status of a publication, contact the AVOX Systems Technical Publications Department. Give the aircraft model when you send an order for a Component Maintenance Manual copy.

- Telephone: 1-716-683-5100
- Fax: 1-716-681-1089
- E-Mail: techpubs@avox.zodiac.com
- Publications Index: log onto www.avoxsys.com; click on the Technical Data tab at the top, then click on the blue Technical Publications Master Index title.

Note: The steps to get the Publications Index from the AVOX Systems web site can and will change in the future because of changes to the web site.

New Contact Information (after September 1 , 2004):

AVOX Systems Inc. (Formerly Scott Aviation, Inc.)

New Technical Support e-mail: avoxcs@avox.zodiac.com

New Technical Publications e-mail: avoxtechpub@avox.zodiac.com

New website address: www.avoxsys.com